

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	6	("20020130106"   "20030129850"   "20050092351"   "5964954"   "5966765"   "6220935").PN	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/04 08:40
L2	2	1 and (dry\$4 with gas)	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/04 08:40
L3	73	("3218082"   "4479281"   "4788994"   "5282289"   "5351360"   "5361449"   "5367838"   "5375291"   "5421056"   "5498294"   "5512106"   "5651834"   "5675856"   "5685039"   "5836809"   "5839945"   "5868866"   "5961732"   "5989355"   "6004400").PN. OR ("2002/0130106"   "2003/0129850"   "2005/0092351"   "5964954"   "5966765"   "6220935").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/04 08:41
L4	17	3 and (dry\$4 with gas)	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/04 08:41
L5	1	"20020130106"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/04 09:06
L6	0	5 and valve	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/04 09:07
L7	0	5 and regulator	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/04 09:07
L8	3	1 and (gas same valve)	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/04 09:07
L9	0	5 and controller	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/04 09:13
L10	0	5 and processor	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/04 09:13

L11	2	1 and controller	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/04 09:13
S1	6	("20020130106"   "20030129850"   "20050092351"   "5964954"   "5966765"   "6220935").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/21 11:47
S2	13	("5367838"   "5512106"   "5651834"   "5836809"   "5839945"   "5961732"   "5989355"   "6004400"). PN. OR ("6220935"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/21 11:49
S3	19	S1 S2	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/21 11:49
S4	5	S3 and (vacuum\$3 or suction\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/21 11:49
S5	1484948	substrate or semiconductor or wafer	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/21 11:51
S6	32160	S5 and (chuck)	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/21 11:52
S7	244	S6 and (roller\$4 with (vacuum\$3 or suction\$3))	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/21 11:53
S8	6	("5826129"   "5871584"   "5965200"   "5997653"   "6488040"   "6548228"). PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/21 11:57
S9	0	("2006/0234503").URPN.	USPAT	OR	ON	2008/07/21 11:59
S10	0	("2006/0234503").URPN.	USPAT	OR	ON	2008/07/21 11:59
S11	0	("2006/0234503").URPN.	USPAT	OR	ON	2008/07/21 11:59
S12	4598	S5 and (roller\$4 with (vacuum\$3 or suction\$3))	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/21 12:06
S13	116	S5 and ((roller\$4 with (vacuum\$3 or suction\$3)) same clamp\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/21 12:07

S14	24	("20020014142"   "20030110658"   "4788994"   "5040484"   "5376216"   "5421056"   "5775000"   "5851041"   "5954072"   "5989342"   "6167893"   "6217034"   "6267853"   "6273484"   "6363623"   "6537416"   "6578853"   "6689257"   "6752442"   "6761362"   "6824343"   "6827092"   "6848194"   "6935638"). PN. OR ("7284760"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/21 12:11
S15	77	S5 and ((roller\$4 with (vacuum\$3 or suction\$3)) same chuck)	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/21 12:21
S16	634	S6 and (roller\$4 same (vacuum\$3 or suction\$3))	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/21 13:22
S17	390	S16 not S7	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/21 13:23
S18	22	("4439244"   "4510176"   "4588473"   "4718202"   "4793102"   "4838289"   "4864779"   "4897369"   "4968375"   "5128281"). PN. OR ("6063232"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/21 13:45
S19	2034	S5 and (roller\$4 near4 (vacuum\$3 or suction\$3))	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/21 14:08
S20	288	S19 and clamp\$4	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/21 14:10
S21	288	S20 not S17	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/21 14:10
S22	253	S20 not S16	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/21 14:11
S23	375258	S5 and (vacuum\$3 or suction\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/21 14:24
S24	45448	S23 and roller\$3	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/21 14:26

S25	2622	S24 and chuck	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/21 14:26
S26	1988	S25 not (S20 or S16 or S7)	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/21 14:27
S27	1523	S26 and rotat\$4	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/21 14:28
S28	597	S27 and clamp\$4	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/21 14:30
S29	24057	(roller\$4 with (vacuum\$3 or suction\$3))	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/21 14:59
S30	448	(roller\$4 with (vacuum\$3 or suction\$3)) with (excess or residue or contamination)	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/21 14:59
S31	29628	S5 and ((vacuum\$3 or suction\$3) with (excess or residue or contamination))	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/21 15:11
S32	540	S5 and (((vacuum\$3 or suction\$3) with (excess or residue or contamination)) same (chuck or roller))	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/21 15:14
S33	1485971	substrate or semiconductor or wafer	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/22 07:34
S34	540	S33 and (((vacuum\$3 or suction\$3) with (excess or residue or contamination)) same (chuck or roller))	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/22 07:34
S35	1	"4788994".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/22 07:46
S36	1	"5192087".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/22 07:46
S37	6	("20020130106"   "20030129850"   "20050092351"   "5964954"   "5966765"   "6220935").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/22 07:47
S38	3	S37 and (vacuum\$3 or suction\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/22 07:49

S39	18	("4788994"   "5351360"   "5361449"   "5421056"   "5675856"   "5685039"   "5868866").PN. OR ("5966765").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/22 07:51
S40	8	S39 and (vacuum\$3 or suction\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/22 07:52
S41	16	("5485644"   "5725414"   "5937469"   "5966765"   "6012192"   "6041465"   "6082377"   "6119295"   "6202658"   "6230753"   "6334229"   "6427566"   "6439245"   "6594847"   "6622334").PN. OR ("6851152").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/22 07:53
S42	22	("4181214"   "4217977"   "4313266"   "4846623"   "5176158"   "5345639"   "5581837"   "5789878"   "5795405"   "5899216"   "5924154"   "5966765"   "5993141"   "6012193"   "6021791"   "6193807"   "6217272"   "6254688").PN. OR ("6439245").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/22 07:55
S43	84	("4064885"   "4092176"   "4326553"   "4389071"   "4476601"   "4501285"   "4962776"   "5100476"   "5144711"   "5316591"   "5326035"   "5345639"   "5351360"   "5361449"   "5375291"   "5476414"   "5485644"   "5498294"   "5518552"   "5551986"   "5562778"   "5581837"   "5582650"   "5616069"   "5727332").PN. OR ("5868866").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/22 07:56
S44	117	S41 S42 S43	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/22 07:56
S45	38	S44 and (vacuum\$3 or suction\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/22 07:56
S46	194	S33 and (((vacuum\$3 or suction\$3) with (residue or contamination)) same (chuck or roller))	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/22 07:59

S47	15	("2571575"   "2919070"   "3309993"   "4178652"   "5519945"   "5644986"   "5651832"   "5911175"   "5948740"   "5953944"   "6006666"   "6561096"). PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/22 08:06
S48	15	("3617441"   "3668008"   "3737940"   "3741157"   "4026701"   "4178652"   "4185399"   "4454621"   "4738196"   "4852209"   "5081950"   "5092961"). PN. OR ("5651832"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/22 08:07
S49	318602	S33 and (residue or contamination)	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/22 08:30
S50	136499	S49 and (vacuum\$3 or suction\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/22 08:30
S51	15248	S50 and roller	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/22 08:30
S52	977	S51 and chuck	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/22 08:31
S53	2286	S49 and ((vacuum\$3 or suction\$3) with nozzle)	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/22 08:31
S54	610	S53 and roller	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/22 08:31
S55	590	S54 not S46	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/22 08:31
S56	305165	wafer	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/22 08:34
S57	70771	S56 and (residue or contamination)	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/22 08:34
S58	1059	S57 and ((vacuum\$3 or suction\$3) with nozzle)	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/22 08:34
S59	212	S58 and roller	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/22 08:34

S60	9	("20010037858"   "20030010361"   "20030041968"   "20040050491"   "20050092351"   "20060234503"   "4345545"   "6385805"   "6932884").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/22 08:38
S61	9	("20010017191"   "20010037858"   "5608943"   "6136163"   "6225235"   "6379235"   "6385805"   "6585876").PN. OR ("6932884").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/22 08:39
S62	11	("2754636"   "5961372"   "6165050"   "6357071"   "6383063"   "6402596").PN. OR ("6558239").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/22 08:48
S63	2	S62 and (vacuum\$3 or suction\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/22 08:49
S64	388	S58 and chuck	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/22 08:52
S65	349	S64 not S59	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/22 08:52
S66	1596	((wafer or substrate or semiconductor) near5 (edge or peripher\$4 or perimeter or circumferenc\$4)) and ((edge or peripher\$4 or perimeter or circumferenc\$4) near5 (wash\$4 or clean\$4 or decontaminat\$4 or etch\$4 or remov\$4)) and ((nozzle or spray\$4 or jet or shower\$4) near5 (moving or movable or moves or reciprocate\$4 or scan\$4 or adjust\$4))	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/22 12:56
S67	1219	S66 and (vacuum\$4 or suck\$4 or suction\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/22 12:58

S68	15	("3853643"   "4027686"   "4897369"   "5128281"   "5608943"   "5725414"   "5868857"   "5906687"   "5933902"   "6055694"   "6063232"   "6070284"   "6523553").PN. OR ("6797074").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/22 13:54
S70	13	("5367838"   "5512106"   "5651834"   "5836809"   "5839945"   "5961732"   "5989355"   "6004400"). PN. OR ("6220935"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/31 10:42
S71	1	"20030041879"	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/31 11:32
S72	1	"6979165".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2008/07/31 14:56
S73	6	("20020130106"   "20030129850"   "20050092351"   "5964954"   "5966765"   "6220935").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/01 07:44
S74	3	S73 and (vacuum\$3 or suction\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/01 07:45
S75	2	S74 and conductive	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/01 07:51
S76	3	S74 and material	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/01 08:04
S77	3	S74 and (electric\$4 or electrically)	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/01 08:05
S78	3	S73 and conductive	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/01 08:05

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